



# Standards *Actions*

## DOE Technical Standards Projects Initiated

The following DOE technical standards projects were recently initiated. If you have any questions or are interested in participating in the development of either of these standards, please contact the persons listed below.

- *Design Criteria Standard for Electronic Records Management Software Applications*, Project Number INFT-0001; Carol Blackston, MA-42; 301-903-4294, FAX 301-903-4101, [Carol.Blackston@hq.doe.gov](mailto:Carol.Blackston@hq.doe.gov).
- *Guide of Good Practices for Occupational Radiological Protection in Uranium Facilities*, Project Number SAFT-0072; Peter O'Connell, EH-52; 301-903-5641, FAX 301-903-7773, [Peter.O'Connell@hq.doe.gov](mailto:Peter.O'Connell@hq.doe.gov).

## DOE Documents Recently Published

The following DOE documents have recently been published:

- DOE-HDBK-1132-99, *Design Considerations*, April 1999.
- DOE-TSL-1-99, *Department of Energy Standards Index*, May 1999.
- DOE-TSL-4-99, *Directory of DOE and Contractor Personnel Involved in Non-Government Standards Activities*, May 1999.

DOE employees and DOE contractors may obtain copies from the ES&H Technical Information Services, U.S. Department of Energy; telephone 1-800-473-4375 or FAX 301-903-9823.

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, VA 22161 (703-605-6000 or FAX 703-605-6900).

Copies of DOE technical standards (i.e., DOE Standards, Specifications, Handbooks, and Technical Standards Lists) are also available on the Internet at the address shown at the bottom of this page.

The "recently published" documents listed above and the following document have been added to the TSP Internet Site:

- DOE-HDBK-3027-99, *Integrated Safety Management Systems (ISMS) Verification Team Leader's Handbook*, June 1999.

## Non-Government Standards

### American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Please note that distribution of *ANSI Standards Action* is normally made only to individual members of ANSI or in group mailings to site members of ANSI. For information on site membership, ask your local ANSI contact. For information on individual or group ANSI membership, call Susan Bose at 212-642-4948, Email [sbose@ansi.org](mailto:sbose@ansi.org). For further information on distribution policies of ANSI publications, call the ANSI customer service manager at 212-642-4979.

## Technical Standards Program

### Document Status as of 6/30/99

In Conversion	In Preparation	Out for Comment	Published in Past 30 Days
4	48	17	3

**Total in process = 65**

Copies of *ANSI Standards Action* and ANSI-published documents may be obtained from ANSI, 11 West 42nd Street, New York, NY 10036 (212-642-4900, FAX 212-302-1286). Comments on listed draft standards may be submitted by contacting the standards developing organization for information.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a complete listing of changes and new publications, standards developing organizations, and additional information about submitting comments. Additional information on ANSI activities and available non-Government standards can be found on the ANSI Internet Site (<http://www.ansi.org>) or through the National Standards System Network (<http://www.nssn.org>).

### The following American National Standards are currently in coordination:

- A10.38, *Basic Elements of a Program to Provide a Safe and Healthful Work Environment* (revision of ANSI A10.38-1991); comments due August 3, 1999.
- ANS 1, *Nuclear Safety - Critical Experiments, Safety Guide for the Performance of* [revision of ANSI/ANS 1-1987 (R1992)]; comments due August 17, 1999.
- ASHRAE Addenda 62m, *Ventilation for Acceptable Indoor Air Quality* (supplement to ANSI/ASHRAE 62-1989); comments due August 17, 1999.



Visit the Technical Standards Program Internet Site: <http://tis.eh.doe.gov/techstds/>

- ASME B30.21, *Manually Lever Operated Hoists* (revision of ANSI/ASME B30.21-1994); comments due August 17, 1999.
- ASME BPVC Revision: 1999 Addenda, *ASME Boiler and Pressure Vessel Code* (revision of September 18, 1998, December 11, 1998, and February 26, 1999 meetings); comments due August 17, 1999.
- AWS B5.4, *Specification for the Qualification of Welder Test Facilities* (new standard); comments due August 17, 1999.
- AWS B5.5, *Specification for the Qualification of Welding Educators* (new standard); comments due August 17, 1999.
- EASA AR100-1998, *Recommended Practice for the Repair of Rotating Electrical Apparatus* (new standard); comments due August 17, 1999.
- HI 3.1-3.5, *Rotary Pumps for Nomenclature, Definitions, Applications and Operation* (revision of ANSI/HI 3.1-3.5-1994); comments due August 3, 1999.
- HI 3.6, *Rotary Pump Test* (revision of ANSI/HI 3.6-1994); comments due August 17, 1999.
- HI 4.1-4.6, *Sealless Rotary Pumps - Nomenclature, Definitions, Applications, Operation and Test* (revision of ANSI/HI 4.1-4.6-1994); comments due August 17, 1999.
- IPC SC-60A, *Post Solder Solvent Cleaning Handbook* (new standard); comments due August 3, 1999.
- PMI 99-001, *A Guide to the Project Management Body of Knowledge* (PMBOK Guide) (new standard); comments due August 17, 1999.
- UL 5, *Standard for Safety for Surface Metal Raceways and Fittings* (revision of ANSI/UL 5-1985 (R1990)); comments due August 3, 1999.
- UL 199, *Standard for Safety for Automatic Sprinklers for Fire-Protection Services* (revision of ANSI/UL 199-1989); comments due August 3, 1999.
- UL 1053, *Standard for Safety for Ground-Fault Sensing and Relaying Equipment* (revision of ANSI/UL 1053-1995); comments due August 3, 1999.
- UL 1242, *Standard for Safety for Intermediate Metal Conduit* (revision of ANSI/UL 1242-1992); comments due August 3, 1999.
- UL 1254, *Standard for Safety for Pre-Engineered Dry Chemical Extinguishing System Units* (revision of ANSI/UL 1254-1998); comments due August 17, 1999.

**The following international standards are currently in coordination** (comment due dates follow each entry):

- 1/1792/FDIS, Addendum 1 to IEC Chapter 393: *Nuclear instrumentation - Physical phenomena and basic concepts* - July 15, 1999.
- 1/1793/FDIS, Addendum 2 to IEC Chapter 394: *Nuclear instrumentation - Instruments* - July 15, 1999.
- 22F/57/FDIS, IEC 61954: *Power electronics for electrical transmission and distribution systems - Testing of thyristor valves for static VAR compensators* - July 1, 1999.
- HD 605 S1:1994/prA2:1999, *Electric cables - Additional test methods* - August 9, 1999.
- ISO/DIS 3069, *End-suction centrifugal pumps - Dimensions of cavities for mechanical seals and for soft packing* - August 7, 1999.

- ISO/DIS 5660-1, *Reaction to fire tests - Heat release, smoke production and mass loss rate from building products - Part 1: Heat release rate (Cone calorimeter method)* - August 21, 1999.
- ISO/DIS 13790, *Thermal performance of buildings - Calculation of energy use for heating* - August 28, 1999.
- ISO/DIS 15239, *Solid mineral fuels - Evaluation of the measurement performance of on-line analyzers* - August 7, 1999.
- ISO/DIS 15597, *Petroleum and related products - Determination of chlorine and bromine content - Wavelength-dispersive X-ray fluorescence spectrometry method* - August 7, 1999.
- ISO/DIS 15733, *Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for tensile stress-strain behaviour of continuous fibre-reinforced composites at room temperature* - August 7, 1999.
- prEN 357-1, *Glass in building - Fire resistant glazed elements - Part 1: Classification of fire resistance of transparent or translucent products* (for information).
- prEN 1015-14, *Methods of test for mortar for masonry - Part 14: Determination of durability of hardened masonry mortars (with cement comprising greater than 50% of the total binder mass)* - September 8, 1999.
- prEN 1097-4, *Tests for mechanical and physical properties of aggregates - Part 4: Determination of the voids of dry compacted filler* (for information).
- prEN 1766, *Products and systems for the protection and repair of concrete structures - Test methods - Reference concretes for testing* (for information).
- prEN 1779, *Non-destructive testing - Leak testing - Criteria for method and technique selection* (for information).
- prEN 1107-1, *Flexible sheets for waterproofing - Part 1: Bitumen sheets for waterproofing - Determination of dimensional stability* (for information).
- prEN 12354-1, *Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 1: Airborne sound insulation between rooms* (for information).
- prEN 12732, *Gas supply systems - Welding steel pipework - Functional requirements* (for information).
- prEN 13477-2, *Non-destructive testing - Acoustic emission - Equipment characterisation - Part 2: Verification of operating characteristic* - September 15, 1999.
- prEN 13528-1, *Ambient air quality - Diffusive samplers for the determination of concentrations of gases and vapours - Requirements and test methods - Part 1: General requirements* - September 22, 1999.
- prEN 13541, *Glass in building - Specification for explosion pressure resistant security glazing - Classification and test method* (for information).
- prEN 13547, *Industrial valves - Copper alloy ball valves* - September 22, 1999.
- prEN 13565-1, *Fixed firefighting systems - Foam systems - Part 1: Requirements and test methods for components* - September 29, 1999.
- prEN 50200:1999, *Method of test for resistance to fire of unprotected small cables for use in emergency circuits* (for information).

- prEN ISO 3766, *Construction drawings - Simplified representation of concrete reinforcement* (ISO 3766:1995) (for information).
- prEN ISO 7518, *Technical drawings - Construction drawings - Simplified representation of demolition and rebuilding* (ISO 7518:1983) (for information).
- prEN ISO 10715, *Natural gas - Sampling guidelines* (ISO 10715:1997) - August 11, 1999.
- prEN ISO 15494-1, *Plastics piping systems for industrial applications - PE, PB and PP - Specifications for components and piping systems - Part 1: Metric series* (ISO/DIS 15494-1:1999) - August 22, 1999.

## American Society for Testing and Materials

Standards activities of the American Society for Testing and Materials (ASTM) are published monthly in *ASTM Standardization News*. Orders for subscriptions or single copies of *ASTM Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9691 (FAX 610-832-9667). ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (FAX 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9672 (FAX 610-832-9666). Additional information on ASTM activities is available on the ASTM Internet Site (<http://www.astm.org>). The following listings are extracted from *ASTM Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

### The following ASTM standards are currently in coordination:

(the due date for all items is July 10, 1999).

- New (Plastics) Standard, *Guide for Reporting of ASTM Properties* (Ref. Z7398Z).
- D 883-98, *Terminology Relating to Plastics* (revised standard).
- D 3174-97, *Test Method for Ash in the Analysis Sample of Coal and Coke From Coal* (revised standard).
- F 806-99, *Test Method for Compressibility and Recovery of Laminated Composite Gasket Materials* (revised standard).

### The following newly published standards are available from ASTM:

- A 209/A 209M-98, *Specification for Seamless Carbon-Molybdenum Alloy-Steel Boiler and Superheater Tubes* (revised standard).
- A 213/A 213M-98, *Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes* (revised standard).
- A 249/A 249M-98, *Specification for Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes* (revised standard).
- A 336/A 336M-98a, *Specification for Alloy Steel Forgings for Pressure and High-Temperature Parts* (revised standard).
- A 498-98, *Specification for Seamless and Welded Carbon, Ferritic, and Austenitic Alloy Steel Heat-Exchanger Tubes with Integral Fins* (revised standard).
- A 688/A 688M-98, *Specification for Welded Austenitic Stainless Steel Feedwater Heater Tubes* (revised standard).

- A 765/A 765M-98a, *Specification for Carbon Steel and Low-Alloy Steel Pressure-Vessel-Component Forgings with Mandatory Toughness Requirements* (revised standard).
- A 803/A 803M-98, *Specification for Welded Ferritic Stainless Steel Feedwater Heater Tubes* (revised standard).
- A 891-98, *Specification for Precipitation Hardening Iron Base Superalloy Forgings for Turbine Rotor Disks and Wheels* (revised standard).
- A 941-98b, *Terminology Relating to Steel, Stainless Steel, Related Alloys, and Ferroalloys* (revised standard).
- A 962-98b, *Specification for Common Requirements for Steel Fasteners or Fastener Materials, or Both, Intended for Use at any Temperature from Cryogenic to the Creep Range* (revised standard).
- B 850-98, *Guide for Post-Coating Treatments of Steel for Reducing Risk of Hydrogen Embrittlement* (revised standard).
- C 11-98, *Terminology Relating to Gypsum and Related Building Materials and Systems* (revised standard).
- C 696-99, *Test Methods for Chemical, Mass Spectrometric, and Spectrochemical Analysis of Nuclear-Grade Uranium Dioxide Powders and Pellets* (revised standard).
- C 1373-98, *Guide for Selecting Jacketing Materials for Thermal Insulation* (new standard).
- C 1409-98, *Guide for Measuring and Estimating Quantities of Insulated Piping and Components* (new standard).
- C 1420-99, *Guide for Selection, Removal, and Shipment of Manufactured Masonry Units Placed in Usage* (new standard).
- D 1079-98, *Terminology Relating to Roofing, Waterproofing, and Bituminous Materials* (revised standard).
- D 5681-98, *Terminology for Waste and Waste Management* (revised standard).
- D 6250-98, *Practice for Derivation of Decision Point and Confidence Limit for Statistical Testing of Mean Concentration in Waste Management Decisions* (new standard).
- D 6311-98, *Guide for Generation of Environmental Data Related to Waste Management Activities: Selection and Optimization of Sampling Design* (new standard).
- D 6345-98, *Guide for Selection of Methods for Active, Integrative Sampling of Volatile Organic Compounds in Air* (new standard).
- D 6349-98, *Test Method for Determination of Major and Minor Elements in Coal, Coke, and Solid Residues From Combustion of Coal and Coke by Inductively Coupled Plasma—Atomic Emission Spectrometry* (new standard).
- D 6350-98, *Test Method for Mercury Sampling and Analysis in Natural Gas by Atomic Fluorescence Spectroscopy* (new standard).
- D 6362-98, *Practice for Certificates of Reference Materials for Water Analysis* (new standard).
- D 6380-99, *Specification for Asphalt Roll Roofing Organic Felt* (new standard).
- D 6382-99, *Practice for Dynamic Mechanical Analysis and Thermogravimetry of Roofing and Waterproofing Membrane Material* (new standard).

- E 1993-98, *Specification for Bituminous Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs* (new standard).
- E 2005-99, *Guide for Benchmark Testing of Reactor Dosimetry in Standard and Reference Neutron Fields* (new standard).
- E 2006-99, *Guide for Benchmark Testing of Light Water Reactor Calculations* (new standard).
- F 1940-98, *Test Method for Process Control Verification to Prevent Hydrogen Embrittlement in Plated or Coated Fasteners* (new standard).

### American National Standards Projects Initiated

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

#### American Society of Mechanical Engineers

**Office:** 3 Park Avenue, 20th Floor  
New York, NY 10016

**Fax:** 212-591-8501

**Contact:** Silvana Rodriguez-Bhatti, [rodriguezs@asme.org](mailto:rodriguezs@asme.org)

- ASME ISO 3977-1, *Gas Turbines - Procurement - Part 1: General Introduction and Definitions* (new standard).

#### National Electrical Manufacturers Association

**Office:** 1300 North 17th Street  
Suite 1847  
Rosslyn, VA 22209

**Fax:** 703-841-3367

**Contact:** Khaled Masri, [khaled.masri@nema.org](mailto:khaled.masri@nema.org)

- C93.4, *Power-Line Carrier Line-Tuning Equipment* (new standard).

#### Underwriters Laboratories, Inc.

**Office:** 333 Pfingsten Road  
Northbrook, IL 60004

**Fax:** 847-509-6217

**Contact:** Terry Hill, [hilt@ul.com](mailto:hilt@ul.com)

- UL 33, *Heat-Responsive Links for Fire Protection Service* (revision of ANSI/UL 33-1995).

### Comments, Questions, and Addresses

**Comments:** If you have any questions or comments, please contact Rick Serbu, EH-31, Manager, DOE Technical Standards Program Office (TSPO), 301-903-2856, FAX 301-903-6172, Email [Richard.Serbu@eh.doe.gov](mailto:Richard.Serbu@eh.doe.gov).

**Addresses:** To update the distribution list for this publication, please contact Marty Marchbanks, ORNL, 423-241-3658, FAX 423-574-0382, Email [mmf@ornl.gov](mailto:mmf@ornl.gov).

**Technical Standards Activities:** The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 423-574-7886, Email [lj8@ornl.gov](mailto:lj8@ornl.gov).



## Standards *Actions*

United States Department of Energy

ES&H Technical Information Service

EH-72, 270CC

19901 Germantown Road

Germantown, MD 20874-1290